

83222-34

12/20/2012

1/23

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

December 20, 2012

Ms. Jane Miller
Biologic, Inc.
115 Obtuse Hill Road
Brookfield, CT 06804

Subject: Amended labeling to implement required spray drift mitigation measures
Product Name: CPF 15G
EPA Registration Number: 83222-34
Submission dated October 26, 2012

Dear Ms. Miller:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable. A stamped copy of the label is enclosed for your records. Please submit one copy of your final printed labeling before you release the product for shipment. Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). If you have any questions, please contact Julie Chao by phone at 703-308-8735, or by email at chao.julie@epa.gov.

Regards,

A handwritten signature in black ink, appearing to read "Julie Chao".

for Venus Eagle, Product Manager 01
Insecticide-Rodenticide Branch
Registration Division (7505P)

CPF 15G

Granular Insecticide

For control of listed insects infesting certain field and vegetable crops.

Active Ingredient:

chlorpyrifos: 0,0-diethyl O-(3,5,6-trichloro-2-pyridinyl) phosphorothioate 15%

Other Ingredients: 85%

Total:..... 100%

Keep Out of Reach of Children

CAUTION

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 1.70. Refer to the label booklet under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Refer to Inside of label booklet for additional precautionary Information Including Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer and Limitation of Remedies at end of label booklet. If terms are unacceptable, return at once unopened.

Agricultural Chemical: Do not ship or store with food, feeds, drugs or clothing

EPA Reg. No. 83222-34

EPA Est.

Produced for
Direct AG Source, LLC
30473 260th St.
Eldora, IA 50627

ACCEPTED
DEC 20 2012
Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for the
pesticide registered under: Net Weight 50 lb

EPA. Reg. No: 83222-34

(Page 1 through end):

<u>Table of Contents</u>	<u>Page</u>
Precautionary Statements	
Hazard to Humans and Domestic Animals	
Personal Protective Equipment (PPE)	
Engineering Controls	
User Safety	
Recommendations	
First Aid	
Environmental Hazards	
Directions for Use	
Agricultural Use Requirements	
Storage and Disposal	
General Information	
Application Rates	
Equipment Calibration	
Uses	
Alfalfa	
Asparagus	
Citrus Orchard Floors	
Cole Crop (<i>Brassica</i>) Leafy Vegetables and Radish, Rutabaga, and Turnip	
Corn (Field Corn and Sweet Corn, Including Corn Grown for Seed)	
Onion (Dry Bulb)	
Peanut	
Sorghum - Grain Sorghum (Milo)	
Soybean	
Sugarbeet	
Sunflower	
Sweet Potato	
Tobacco	
Terms and Conditions of	
Use Warranty Disclaimer	
Inherent Risks of Use	
Limitation of Remedies	

Precautionary Statements

Hazard to Humans and Domestic Animals

CAUTION

Harmful if Swallowed • Causes Moderate Eye Irritation

Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate or viton. For more information, follow instructions in Supplement Three of PR Notice 93-7. If you want more options, follow the instructions for category H on an EPA chemical resistance category selections chart.

Loaders, applicators and all other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- A NIOSH-approved dust mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH-approved respirator with any N, R, P, or HE filter

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

Pilots must use an enclosed cockpit in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

When applicators use closed cab equipment in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

<p>First Aid</p> <p>Organophosphate</p>
<p>If swallowed: Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.</p> <p>If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.</p>
<p>Note to Physicians: Chlorpyrifos is a cholinesterase inhibitor. Treat symptomatically. If exposed, plasma and red blood cell cholinesterase tests may indicate significance of exposure (baseline data are useful). Atropine, only by injection, is the preferable antidote. Oximes, such as 2-PAM/protopam, may be therapeutic if used early; however, use only in conjunction with atropine. In case of severe acute poisoning, use antidote immediately after establishing an open airway and respiration.</p>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this product, contact the National Pesticide Information Center, 1-800-858-7378, Monday-Friday, 7:30 AM-3:30 PM PST. You may also contact the National Poison Control Center, 1-800-222-1222, day or night, for emergency medical treatment information.</p>

Environmental Hazards

This pesticide is toxic to fish, aquatic invertebrates, small mammals and birds. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees *are* visiting the treatment area.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

6/23

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow entry into treated areas during the restricted entry interval (RED). The REI for each crop is listed in the directions for use associated with each crop.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Certified crop advisors or persons entering under their direct supervision under certain circumstances may be exempt from the early reentry requirement pursuant to 40 CFR Part 170.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves made out of any waterproof material
- Chemical-resistant footwear plus socks
- Chemical-resistant headgear for overhead exposures.

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

Pesticide Storage: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Product Information

Insecticide Resistance Management (IRM)

CPF 15G contains a Group 1B insecticide. Insect/mite biotypes with acquired resistance to Group 1B may eventually dominate the insect/mite population if Group 1B insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by CPF 15G or other Group 1B insecticides.

To delay development of insecticide resistance, the following practices are recommended:

- Avoid consecutive use of insecticides with the same mode of action (same insecticide group) on the same insect species.
- Use tank mixtures or premix products containing insecticides with different modes of action (different insecticide groups) provided the products are registered for the intended use.
- Base insecticide use on comprehensive Integrated Pest Management (IPM) programs.
- Monitor treated insect populations in the field for loss of effectiveness.
- Contact your local extension specialist, certified crop advisor, and or manufacturer for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.

Buffer Distance

The buffer distance specified in the below table are the distances in feet that must exist to separate sensitive sites from the targeted application site. Buffers are measured from the edge of the sensitive site to the edge of the application site.

Sensitive sites are areas frequented by non-occupational bystanders (especially children). These include residential lawns, pedestrian sidewalks, outdoor recreational areas such as school grounds, athletic fields, parks and all property associated with buildings occupied by humans for residential or commercial purposes. Sensitive sites include homes, farmworker housing, or other residential buildings, schools, daycare centers, nursing homes, and hospitals. Non-residential agricultural buildings, including barns, livestock facilities, sheds, and outhouses are not included in this prohibition.

Application Rate (lb ai/A)	Required Setback (Buffer Zones) (feet)	
	Aerial	Ground**
>0.5 - 1	25	10
>1 - 2	Not Allowed	10
>2 - 3	Not Allowed	10
>3 - 4	Not Allowed	10
>4	Not Allowed	10

** The required buffer zones for ground application apply to applications made via spreaders.

Only pesticide handlers are permitted in the setback area during application of this product. Do not apply this product if anyone other than a mixer, loader, or applicator, is in the setback area. Exception: Vehicles and persons riding bicycles that are passing through the setback area on public or private roadways are permitted.

Application Rates

Do not apply by aircraft at a rate greater than 1 lb ai chlorpyrifos per acre.

Table 1
Application Rates/1000 Ft of Row and Equivalent/Acre
at Different Row Spacings

Ounces of CPF 15G Per 1000 Feet of Row	Pounds of CPF 15G Required Per Acre for Various Row Spacing							
	40"	36"	36"	34"	32"	30"	22"	18"
3.7	3.0	3.2	3.4	3.6	3.8	4.0	5.5	6.7
4	3.3	3.4	3.6	3.8	4.1	4.4	5.9	7.3
4.5	3.7	3.9	4.1	4.3	4.6	4.9	6.7	8.2
6	4.9	5.2	5.4	5.8	6.1	6.5	8.9	10.9
6.5	5.3	5.6	5.9	6.2	6.6	7.1	9.7	11.8
7.5	6.1	6.4	6.8	7.2	7.7	8.2	11.1	13.6
8	6.5	6.9	7.3	7.7	8.2	8.7	11.9	14.5
9	7.4	7.7	8.2	8.6	9.2	9.8	13.4	16.3
12	9.8	10.3	10.9	11.5	12.3	13.1	17.8	21.8
15	12.3	12.9	13.9	14.4	15.3	16.3	22.3	27.2
16	13.1	13.8	14.5	15.4	16.3	17.4	23.8	29.0

Equipment Calibration

Note: The following chart lists suggested initial gauge settings for application of CPF 15G with one hopper opening per row. Be sure to check the actual application rate under your operating conditions.

1. Fill hopper.
2. Attach a plastic bag to tube opening.
3. Set planter to the initial settings shown on chart.
4. Measure off 1000 row feet and drive planter the pre-measured distance at desired speed.
5. Each bag should contain 6 to 8 oz (wt.) of granules depending upon desired rate.
6. If the result is over or under the desired rate, adjust the settings and repeat the calibration.

Table 2
Calibration Settings for Different Types of Equipment

Planter Type	Speed (mph)									
	4		5		6		7		8	
	Application Rate, oz per 1000 ft of row									
	8	16	8	16	8	16	8	16	8	16
Gandy ¹	21.4	30.2	23.7	32.4	26.0	36.0	27.7	39.0	30.2	41.0
John Deere ¹ max-Emerge ²	20	44	26	46	30	49	35	52	40	54
John Deere ¹ 7000 Max-Emerge (Odd Nos. on Gate)	14	22	16	24	18	26	19	28	21	30
John Deere ¹ 7000 Max-Emerge (Even Nos. on Gate)	17	30	20	33	24	35	26	36	28	38
John Deere 71 Flexi-Planter and Older Planters	1 30	2 17	2 5	2 22	2 9	2 27	2 13	2 31	2 16	3 16
John Deere ¹ MaxEmerge Plus	18		23	-	29	-	33	-	39	-
Allis Chalmers ⁴ 70 Series	8	13	8	13	8	13	8	13	8	13
Allis Chalmers ⁵ 78 & 79 Series	1 9.0	3 3.0	2 3.3	3 9.5	2 6.0	4 3.0	2 9.0	5 4.0	3 2.5	6 0
Noble ¹ (New)	11	19	14	22	16	25	17	28	19	31
White Planter	11	19	14	22	16	25	17	28	19	31
International Harvester ⁵	1 9.0	3 3.0	2 3.3	3 9.5	2 6.0	4 3.0	2 9.0	5 4.0	3 2.5	6 0
Buffalo All-Flex ³ (Fleischer Mfg.)	4 7/8	10	4 7/8	10	4 7/8	10	-	-	-	-

¹Gauge setting

²Gauge setting with range 1 & 2 - number is Range
notch

³An application rate of 16 oz per 1000 ft of row is not attainable with this equipment.

⁴Gauge setting is constant regardless of speed.

⁵Gauge setting shown with stem gates & dial settings - number shown is gate
dial

⁶Number of turns open on the adjustment nut.

Uses

Alfalfa

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Apply CPF 15G at planting as an in-furrow treatment for suppression of the target pests during establishment. Direct the granules into the planter shoe with the seed, place the applicator tube directly behind the planter shoe so that the granules drop into the seed furrow, or place the granular band applicator behind the planter shoe so that the granules fall on the soil surface and into the open seed furrow and are covered with soil.

Target Pests	CPF 15G (lb/acre)
cutworms	6.6
grubs	
wireworms	

Specific Use Restrictions:

- **Preharvest Interval:** Do not cut or graze treated alfalfa within 21 days after application.
- Do not make more than 1 application of CPF 15G per year.
- Maximum single application rate is 1 lb ai chlorpyrifos per acre.
- For use only in Missouri.

Asparagus

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Apply CPF 150 as a postharvest ground application for suppression of the target pest. Apply as a band over the entire crown area when the asparagus beds have been split (i.e., remove most of the soil from above the asparagus crowns). Cover the area with soil the day of application.

Note: Control may be reduced in soils with high organic matter content.

Target Pest	CPF 15G (lb/acre)
centipede symphylans	10

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 180 days before harvest.
- Do not apply more than a total of 3 lb ai chlorpyrifos per acre between harvests.
- For use only in California.

Citrus Orchard Floors

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 5 days unless PPE required for early entry is worn.

Apply CPF 15G as a ground broadcast spray directed to the orchard floor to control foraging ants and suppress mounds. Use a suitable granular applicator, such as a cyclone fertilizer spreader, that uniformly broadcasts the granules over the orchard floor. CPF 15G may be custom blended with granular fertilizers provided that the blended mixture can be applied uniformly to the orchard floor. Do not apply where weed growth or other obstructions impede uniform coverage of the orchard floor. Foliar applications of CPF-4E may be made in addition to orchard floor treatments of CPF 15G (see Specific Use Restrictions).

Target Pests	CPF 15G lb/acre
ants (1)	6.6

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

Pest-Specific Use Directions:

- 1. Excludes ants of significant public health importance such as fire ants, harvester ants, carpenter ants, and pharaoh ants.

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 28 days before harvest.
- Do not make more than 3 applications of CPF 15G or other products containing chlorpyrifos per year (does not include foliar applications to citrus trees).
- Do not apply more than 20 lb of CPF 15G (3 lb ai chlorpyrifos per acre) per year.
- Do not apply more than 1 lb ai chlorpyrifos in a single application.
- Do not make a second application within 10 days of any application of chlorpyrifos to the orchard.
- Do not allow meat or dairy animals to graze in treated areas.

Cole Crop (Brassica) Leafy Vegetables and Radish, Rutabaga, and Turnip

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours (3 days for cauliflower) unless PPE required for early entry is worn.

For direct seeded and transplanted crops, apply CPF 15G as an at-plant T-band as a 4-inch wide band centered over the row. This application requires a spreader or splitter on the end of the applicator drop tube. Shallow incorporation is necessary. Placement behind the planter shoe and in front of the press wheel is recommended. Equivalent rates of CPF 15G per acre for various row spacings are given in Table 1.

Crops	Target Pests	CPF 15G (oz/1000 ft of row)
bok choy	root	4.6 - 9.2 (0.7 - 1.4 oz ai)
broccoli		
broccoli raab		
Brussels sprout		
cabbage		
cauliflower		
Chinese broccoli		
Chinese cabbage		
collards		
kale		
kohlrabi		
rutabaga		
turnip		

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply to broccoli, Brussels sprout, cabbage, cauliflower, Chinese cabbage, collard, kale, kohlrabi and turnip within 30 days before harvest; to

rutabaga within 7 days before harvest.

- Do not make more than 1 application of CPF 15G per season.
- Do not apply more than 7 1/2 lb of CPF 15G per acre to crops planted in 40-inch rows or more than 15 lb of CPF 15G per acre to crops planted in 20-inch rows (or two rows per bed). Use proportional amounts for other row spacings not to exceed 15 lb of CPF 15G per acre.
- The maximum single application rate is 1.4 oz ai chlorpyrifos per 1000 feet of row (36 oz ai chlorpyrifos per acre).
- Do not make a foliar application of CPF-4E or other product containing chlorpyrifos within 10 days of an at-plant application of CPF 15G.
- Do not use rutabaga tops for food or feed purposes.

Radish

Apply as an at-plant in-furrow treatment. Place the granules in the seed furrow with the seed at planting time.

Target Pests	CPF 15G (oz/1000 ft of row)
root maggots	3.3

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 7 days before harvest.
- Do not apply more than 18.3 lb of CPF 15G per acre or make more than 1 application per season.
- The maximum single application rate is 0.5 oz ai chlorpyrifos per 1000 feet if row (2.75 lb ai chlorpyrifos per acre).

Corn (Field Corn and Sweet Corn, Including Corn Grown for Seed)

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

CPF 15G is compatible with all ALS inhibitor herbicides applied in accordance with label recommendations. Refer to product labels for additional precautions and directions for use. Equivalent rates of CPF 15G per acre for various row spacings are given in Table 1.

At-Plant T-Band Application

Apply 8 oz of CPF 15G per 1000 ft of row as a T-band over an open seed furrow over the row behind the planter shoe, in front of the press wheel. In conventional and minimum-till corn, incorporate into the top 1/2 to 1 inch of soil using suitable equipment. A soil applied T-band treatment may be followed by post-applied herbicides such as Callisto. CPF 15G has demonstrated suppression of certain soil-borne pathogens that may result in physiological and agronomic advantages to corn under environmental stress conditions when compared to corn not treated with CPF 15G.

At-Plant In-Furrow Application

Apply 8 oz of CPF 15G per 1000 ft of row at planting as an in-furrow treatment in conventional, minimum and no-till corn. Direct the granules into the planter shoe with the seed, or place the applicator tube directly behind the planter shoe so that the granules drop into the seed furrow, or place the granular band applicator behind the planter shoe so that the granules fall on the soil surface and into the open seed furrow and are covered with soil.

Postplant Application

To control corn rootworm larvae, apply 8 oz of CPF 15G per 1000 ft of row at cultivation by placing the granules at the base of the plant on both sides of the row just ahead of the cultivation shovels and covering the granules with soil. To control European or southwestern corn borer larvae, apply CPF 15G in a band over the row so that the granules are directed into the whorl or use a postplant broadcast treatment. Consult your state agricultural experiment station or extension service specialist for proper time to treat and local threshold information. Scouting for insect damage is strongly encouraged.

Postplant Broadcast Application

To control European or southwestern corn borers, apply CPF 15G by uniformly broadcasting the granules over the corn plants by aerial application. For aerial applications, do not apply within 150 feet of rivers, natural ponds, lakes, streams, reservoirs, marshes, estuaries and commercial fish ponds. Apply at a rate of 5 lb per acre for low to moderate first generation infestations or at 6.5 lb per acre for severe first generation infestations and all second generation infestations. Apply before larvae have entered corn stalks. Consult your state agricultural experiment station or extension service specialist for local threshold information. Scouting for insect damage is strongly encouraged.

Target Pests	Banded/in furrow Applications (oz/1000 feet of row)			Aerial Broadcast Application (lb/acre)
	T-Band	At-Plant	Postplant Application	
		In- Furrow		
ants (4)	8	8	-	-
armyworms	-	-	6 - 8	-
billbugs	8	-	-	-
chinch bugs (1)	8	8	-	-
cutworms(1)	8	8	-	-
European and southwestern corn borer (3)				
1st Generation	-	-	3.5 - 8	5 - 6.5
2nd Generation	-	-	6 - 8	6.5
grubs	8	8	-	-
lesser cornstalk borers	8	-	-	-

northern and western corn rootworm larvae	8	8	8	-
seed corn beetles	8	8	-	-
seed corn maggots	8	8	-	-
southern corn rootworm larvae	8	8	8	-
smphylans	8	-	-	-
wireworms 2	8	8	-	-

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

Pest-Specific Use Directions:

1. **Cutworms and chinch bugs:** The 8 oz rate provides suppression only for in-furrow treatments.
2. **Wireworms:** For best control, apply as an in-furrow treatment. Consider using a hopper box insecticidal seed treatment with T-band applications.
3. **European corn borer:** When using postplant banded applications, use rates of 3.5 to 4 oz of CPF 15G per 1000 feet of row for low to moderate first generation infestations before larvae have entered corn stalks. Use application rates of 6 to 8 oz of CPF 15G per 1000 feet of row for severe first generation infestations and all second generation infestations. Make applications before larvae have entered corn stalks.
4. **Ants:** Excludes ants of significant public health importance such as fire ants, harvester ants, carpenter ants, and pharaoh ants. The 8 oz rate provides suppression only for in-furrow treatments.

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 21 days before harvest of grain or ears.
- Do not make more than 3 applications of any product containing chlorpyrifos per season, including the maximum allowed of 2 granular applications, at the 1 lb ai chlorpyrifos rate.
- Re-treatment with a second soil application of CPF 15G is allowed under replant situations due to loss of crop during establishment only when initially applied at the rate of 1 lb.
- Do not apply more than a total of 3 lb ai chlorpyrifos per acre per season.
- Maximum single application rate for at-plant applications is 8 oz of CPF 15G per 1000 ft. of row (1.3 lb ai chlorpyrifos per acre).
- Maximum single application rate for postplant application is 6.5 lb of CPF 15G (1 lb ai chlorpyrifos) per acre.
- Do not make a second application of CPF 15G or other product containing chlorpyrifos within 10 days of the first application.
- Do not apply by aircraft at a rate greater than 1 lb ai chlorpyrifos per acre.
- Do not make more than 1 at-plant application and 1 foliar application of CPF 15G per season at the 1 lb ai chlorpyrifos rate.
- If more than 1 lb ai granular chlorpyrifos per acre is applied at-plant (for a maximum of 1.3 lb ai chlorpyrifos per acre per season), only 1 additional application of a liquid product containing chlorpyrifos at 1 lb ai chlorpyrifos per acre is allowed per season, for a total of 2.3 lb ai chlorpyrifos per acre per season.

16/23

Onion (Dry Bulb)

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Apply as an at-plant in-furrow treatment. Equivalent rates of CPF 15G per acre for various row spacings are given in Table 1.

Target Pest	CPF 15G (oz/1 000 ft of row)
onion maggot (1)	3.7

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

Pest-Specific Use Directions:

1. In Colorado, Idaho, Washington and Oregon, to control onion maggots in onions planted in double rows with rows spaced 2 to 4 inches apart, apply CPF 15G at the rate of 3.7 oz per 1000 feet of double row. Place the granules in a 5- to 7-inch wide band over both rows behind the planter shoe and in front of the press wheel to achieve shallow incorporation.

Specific Use Restrictions:

- Do not make more than 1 application of CPF 15G per year or other product containing chlorpyrifos.
- Do not apply more than 1 lb ai chlorpyrifos per crop season.
- The maximum single application rate is 0.56 oz ai chlorpyrifos per 1000 feet of row.
- Preharvest Interval: Do not apply within 60 days before harvest.

Peanut

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Equivalent rates of CPF 15G per acre for various row spacings are given in Table 1.

At-Plant Preventive Application

Apply CPF 15G in a 6- to 12-inch band over the row behind the planter shoe and in front of the press wheel. Incorporate granules to a depth of 1 inch with tines, chains or other suitable equipment. If the 7.5 oz rate is used at planting time, then another application of 7.5 oz per 1000 feet of row should be made postplant to extend control.

Postplant Preventive Application

Apply CPF 15G to peanuts at early flowering to pegging stage of growth in a 6- to 8-inch band over the row. For extended insect control and continued suppression of white mold (southern blight), a second application of CPF 15G may be made (see Specific Use Restrictions).

Band Rescue Application

Apply CPF 15G in a 10- to 18-inch band over the fruiting zone.

Target Pests	Banded Applications (oz/1000 feet of row)	
	At Plant Application	Postplant Application
Preventative application: cutworms lesser cornstalk borer southern corn rootworm larvae wireworms white mold (southern blight) (1)	7.5 - 15	7.5 - 15
potato leafhopper	-	15
Rescue application: lesser cornstalk borer (2)	-	7.5 - 15

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

Pest-Specific Use Directions:

- 1. Suppression of white mold:** Best suppression of white mold (southern blight) is obtained by applying the maximum rate of 15 oz per 1000 ft of row. Irrigation or rain following application is needed to enhance treatment effectiveness for suppression of white mold. Under conditions of heavy white mold pressure, a suitable fungicide may also be required and must be applied separately.
- 2. Lesser cornstalk borer:** Use CPF 15G for the control of lesser cornstalk borer as a rescue treatment when the insect first appears, usually just prior to or at pegging.

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 21 days before harvest.
- Do not make more than 2 applications of CPF 15G per year.
- Do not apply more than 15 oz of CPF 15G per 1000 feet of row per crop season or apply more than 4 lb ai chlorpyrifos per acre.
- The combined total of preplant and postplant applications of CPF-4E and CPF 15G or other product containing chlorpyrifos must not exceed 4 lb ai chlorpyrifos per acre per crop season.
- Do not make a second application of CPF 15G or other product containing chlorpyrifos within 10 days of the first application.
- Do not feed treated peanut forage or hay to meat or dairy animals.
- Aerial application to peanuts is prohibited.

18/23

Sorghum - Grain Sorghum (Milo)

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Apply as an at-plant T-band in a 6- to 8-inch band over the open seed furrow in front of the press wheel and incorporate into the top 1/2 to 1 inch of soil using suitable equipment. Equivalent rates of CPF 15G per acre for various row spacings are given in Table 1. Use the lowest rate for lesser cornstalk borer control when protection is desired for 2 to 3 weeks or a higher rate for longer residual activity. It is absolutely necessary to incorporate the granules, especially at lower rates.

Target Pests	At Plant T-Band Applications (oz/1000 feet of row)
lesser cornstalk borer	4 - 8.
ants (2) chinch bugs (1) corn rootworm cutworms	8

Numbers in parentheses (-) refer to Pest-Specific Use Directions"

Pest-Specific Use Directions:

- 1. Chinch bugs:** 8 oz rate suppression only.
- 2. Ants:** Excludes ants of significant public health importance such as fire ants, harvester ants, carpenter ants, and pharaoh ants. 8 oz rate suppression only.

Specific Use Restrictions:

- Do not make more than 1 application of CPF 15G per season.
- The maximum single application rate is 8 oz per 1000 feet of row (1.3 lb ai chlorpyrifos in 30-inch row spacing). Use proportional amounts for other row spacings not to exceed 1.5 lb ai chlorpyrifos per acre.
- Do not make a foliar application of CPF-4E or other product containing chlorpyrifos within 10 days of an at-plant application of CPF 15G.

Soybean

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Apply as an at-plant T-band in a 4- to 10-inch band over an open seed furrow in front of the press wheel and incorporate into the top 1/2 to 1 inch of soil using suitable equipment. For postplant application, incorporate the granules in a 4-to 10-inch band to a depth of 1/2 to 1 inch using a suitable cultivator. Apply CPF 15G with equipment that provides uniform distribution of the granules over the row. Equivalent rates of CPF 15G per acre for various row spacing are given in

Table 1.

Target Pests	Banded Applications (oz/1000 feet of row)	
	At Plant T-Band	Post plant
cutworms lesser cornstalk borer	8	8
ants (suppression) (1)	8	-

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

Pest-Specific Use Directions:

1. Excludes ants of significant public health importance such as fire ants, harvester ants, carpenter ants, and pharaoh ants.

Specific Use Precautions:

- Do not apply as an in-furrow treatment.

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 28 days before harvest.
- Do not make more than 3 applications of any product containing chlorpyrifos per season with a maximum of 1 granular application and 2 liquid applications.
- The maximum single application rate is 8 oz of CPF 15G (1.2 oz ai chlorpyrifos) per 1000 feet of row.
- The maximum single application rate is 2 lb ai chlorpyrifos per acre for preplant/at-plant incorporation and 1 lb ai chlorpyrifos per acre for foliar and postharvest application.
- Do not make a foliar application of CPF-4E or other product containing chlorpyrifos within 10 days of an at-plant application of CPF 15G.

Sugarbeet

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Equivalent rates of CPF 15G per acre for various row spacings are given in Table 1.

At-Plant T-Band Application

Apply CPF 15G in a band 4 to 5 inches wide behind the planter shoe, over the drill row, and in front of the press wheel. **Do not apply granules in direct contact with seeds.** Apply CPF 15G at the rate of 4.5 to 9 oz per 1000 feet of row (equivalent to 6.7 to 13.4 lb per acre based upon 22-inch row spacing). Incorporate CPF 15G into the top 1/2 to 1 inch of soil using suitable equipment.

Postemergence Band Application

Apply CPF 15G in a band 3 to 5 inches wide over the beet row (up to 2 to 4 true leaf stage of

plant growth). Apply CPF 15G at the rate of 6.5 to 9 oz per 1000 feet of row (equivalent to 10 to 13.5 lb per acre based upon 22-inch row spacing). Incorporate CPF 15G into the top 1/2 to 1 inch of soil using suitable equipment.

Target Pests	Banded Applications (oz/1000 feet of row)	
	At-Plant T-Band	Postplant Application
sugarbeet root maggot (1)	4.5 - 9	6.5 - 9
cutworms	6.6 - 9	-
wireworms (suppression)	6.5 - 9	-

Numbers in parentheses (-) refer to Pest-Specific Use Directions.

Pest-Specific Use Directions:

1. When **root maggot** populations are expected to be low, apply CPF 15G at a rate of 4.5 oz per 1000 feet of row (equivalent to 6.75 lb per acre based upon 22-inch row spacing). If initial adult fly activity indicates higher than anticipated populations, apply CPF-4E at or near the time of peak adult emergence to augment control.

Specific Use Precautions: Granular insecticides, including CPF 15G, may contribute to the stress of the sugarbeet plant under certain environmental conditions. This stress may reduce plant stand or interfere with normal plant development. Herbicides used preplant incorporated may interact with insecticides and enhance this stress.

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 30 days before harvest.
- Do not make more than 1 application of CPF 15G per season or apply more than 2 lb ai chlorpyrifos per acre per season.
- Do not apply more than a total of 3 lb ai chlorpyrifos per acre per year, or make more than 3 applications of products containing chlorpyrifos per season.
- The maximum single application rate is 1.35 oz ai chlorpyrifos per 1000 feet of row or 2 lb ai chlorpyrifos per acre based upon a 22-inch row spacing.
- Do not make a foliar application of CPF-4E or other product containing chlorpyrifos within 10 days of an at-plant application of CPF 15G.

Sunflower

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Apply as an at-plant T-band. Place the granules in a 7-inch wide band over the row behind the planter shoe in front of the press wheel and incorporate into the top 1 inch of soil using suitable equipment. Equivalent rates of CPF 15G per acre for various row spacings are given in Table 1.

Target Pests	CPF 15G (oz/1000 ft of row)
cutworms	8

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 42 days before harvest.
- Do not make more than 3 applications of any product containing chlorpyrifos per season with a maximum of 1 granular application and 2 liquid applications.
- The maximum single application rate is 1.25 oz ai chlorpyrifos per 1000 feet of row or 1.3 lb ai chlorpyrifos per acre based upon a 30-inch row spacing.
- The maximum single application rate is 2 lb ai chlorpyrifos per acre for preplant/at-plant incorporation and 1 lb ai chlorpyrifos per acre for foliar and postharvest application.
- Do not make a foliar application of CPF-4E or other product containing chlorpyrifos within 10 days of an at-plant application of CPF 15G.

Sweet Potato

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Apply CPF 15G as a preplant broadcast treatment by evenly distributing the granules over the soil surface and then incorporating them into the soil to a depth of 4 to 6 inches using a rotary hoe, disc cultivator; or other suitable equipment. Plant the crop in the usual manner no later than 14 days after treatment (any delay in planting will reduce the length of time that CPF 15G will protect against feeding damage). CPF 15G will not control false wireworm or whitefringed beetle and other grubs that attack sweet potatoes.

Target Pest	CPF 15G (lb/acre)
<i>Conoderus</i> (wireworm) <i>Systema</i> (flea beetle) sweet potato flea beetle	13.5

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 125 days before harvest.
- Do not make more than 1 application of CPF 15G or other product containing chlorpyrifos per season.
- The maximum single application rate is 2 lb ai chlorpyrifos per acre.

Tobacco

Worker Restricted Entry Interval: Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours unless PPE required for early entry is worn.

Apply CPF 15G as a preplant broadcast treatment one week before transplanting using equipment that evenly distributes the granules over a treated area. Immediately following application, incorporate the granules into the soil to a depth of 2 to 4 inches using suitable equipment.

Target Pest	CPF 15G (lb/acre)
cutworms	13.5
flea beetles	
mole crickets	
root maggots	
wireworms	

Specific Use Restrictions:

- **Preharvest Interval:** Do not apply within 7 days before harvest.
- Do not make more than 1 application of CPF 15G or other product containing chlorpyrifos per season.
- The maximum single application rate is 2.025 lb ai chlorpyrifos per acre.

LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read this Limitation of Warranty And Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Direct Ag Source, LLC. These risks can cause: ineffectiveness of the product, crop injury, or injury to non-target crops or plants.

Direct Ag Source, LLC does not agree to be an insurer of these risks beyond what is expressly warranted by this label. When you buy or use this product, you agree to accept these risks:

Direct Ag Source, LLC warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

To the extent consistent with applicable law, Direct Ag Source, LLC makes no other express or
Label amendment to comply with EPA Email dated 12 07 2012

implied warranty of fitness or of merchantability or any other express or implied warranty.

To the extent consistent with applicable law, in no event shall Direct Ag Source, LLC or seller be liable for any incidental, consequential, or special damages resulting from the use or handling of this product. Buyer's or user's bargained-for expectation is crop protection. To the extent consistent with applicable law, the exclusive remedy of the user or buyer and the exclusive liability of Direct Ag Source, LLC or seller, for any and all claims, losses, injuries, or damages (including claims based on breach of warranty or contract, negligence, tort, or strict liability), whether from failure to perform or injury to crops or other plants, and resulting from the use or handling of this product, shall be the return of the purchase price of the product, or at the election of Direct Ag Source, LLC or seller, the replacement of the product.

To the extent consistent with applicable law that allows such requirement, Direct Ag Source, LLC or its Retailer must have prompt notice of any claim so that an immediate inspection of buyer's or user's growing crops can be made. Buyer and all users shall promptly notify Direct Ag Source, LLC or a Direct Ag Source, LLC Retailer of any claims, whether based on contract, negligence, strict liability, or other tort or otherwise be barred from any remedy.

This Limitation of Warranty And Liability may not be amended by any oral or written agreement.